

SEARCHING FOR NON-BIOLOGICAL EXTRATERRESTRIAL INTELLIGENCE. Seth Shostak¹, ¹SETI Institute, 189 Bernardo Ave., Mountain View, CA 94043, seth@seti.org.

Introduction: For a half-century, SETI researchers have sought to maximize the chances of finding signals by targeting stellar systems that are deemed most likely to have habitable planets. Recent Kepler results suggest that such worlds are plentiful.

However, our own developmental trajectory suggests that shortly after inventing technology capable of interstellar communication, a society also develops artificial intelligence (AI). If so, then AI may constitute the majority of the sentience in the cosmos. Consequently, looking for signals from habitable planets could be the wrong approach for SETI.

We consider what might be the visible characteristics of extraterrestrial intelligence that is not biological, and the implications for SETI experiments.